

## ABSTRACT

An IR-cut filter comprises a crystal plate and a multilayer film formed on one side of the crystal plate. The multilayer film is composed of first thin films made of a high refractive index material and second thin films made of a low refractive index material, which are alternately layered. The multilayer film is composed of a first layer, a second layer and a third layer sequentially from one side of the crystal plate. Film thicknesses of the layered first and second thin films differ from layer to layer so that the layers have different thicknesses. The layers have thicknesses which are sequentially increased. The multilayer film is provided with a sharpness prevention means for preventing a sharp change in transmittance within a visible region. The sharpness prevention means provides an inflection point at a wavelength band in which transmittance changes sharply.